

selectarc **Fonte Ni3**

**Pure Nickel Electrode
non conductive coating**



Classification

AWS A 5.15 : ENi-CI DIN 8573 : E Ni BG 13
ISO 1071 : ENi

Description & Applications

Electrode with graphite-basic non conductive coating. Weld deposit consists of pure nickel. Recommended for cold welding and repairing of grey cast iron, repairing of cracks. Especially designed to weld in deep holes or on parts where the coating may touch the casting. Homogeneous and easy to machine deposit. Good bonding and flow of the weld metal. Repairing of engine blocks, frames of tool machines, gearboxes, reducing pieces, valve and pumps bodies.

Base materials

Grey cast iron to different steels :

ASTM	DIN	NFA
A48 Class 25B – A48 Class 60B	GG-15 to GG-40	FGL 150 to FGL 400

Typical Weld Metal Composition (%)

C	Si	Fe	Ni
1.0	0.9	2.0	>95

All Weld Metal Mechanical Properties

R _m (MPa)	Hardness
>300	approx. 180 HB

Welding Current & Instructions

Electrode	ØxL (mm)	2,5x350	3,2x350	4,0x350
Current	(A)	80	110	140

Weld on clean and exempt from grease surfaces (previous grinding of the joint). Apply a heat input as low as possible and keep the temperature low (< 70°C). Weld with lowest practical current and depose short and narrow beads to reduce the risk of producing cracks in the base metal.

To reduce stresses, produced during welding, hammering of the beads is recommended after the deposition of short runs (essential on rigid pieces).



= +	~ 40 V
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